OPERATION & SERVICE MANUAL

F2000 CUTTING SYSTEM

SCOPE OF MANUAL – THIS MANUAL IS FOR THE F2000 SLICER.

SLICER

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Ver 2.0 6/04

PREPARATION FOR USE AND INSTALLATION INSTRUCTIONS

A. Examine exterior of machine for any sign of damage. If any damage is observed, note on bill of lading.

1. Scratches, dents, or other damage.
2. Broken shipping container.

B. Remove outer shipping material. Carefully remove machine from crate and move to desired location.

C. Attach the conveyor to the machine.

D. Insert the connector from the conveyor into the connector on the side of the control box.

E. Connect 220V power to the attached power cord.

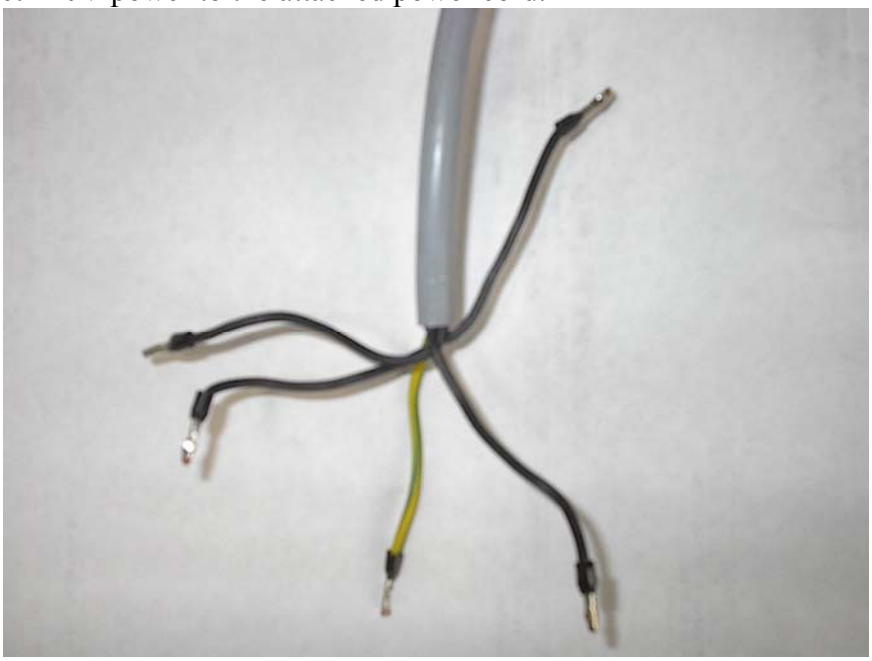


Figure 1
Power Connections

Connect ground to the green/yellow wire.

Connect incoming power to wires 1, 2, & 3 in the power cord. (Figure 1)

Apply power to the machine.

Cycle the machine by pushing the green buttons. (Figure 2)

Verify that the machine rotates in the correct direction. (Figure 3)

If the machine does not rotate in the correct direction, swap the connections to wires 1 & 2 of the incoming power.

Figure 2
Cycling the machine

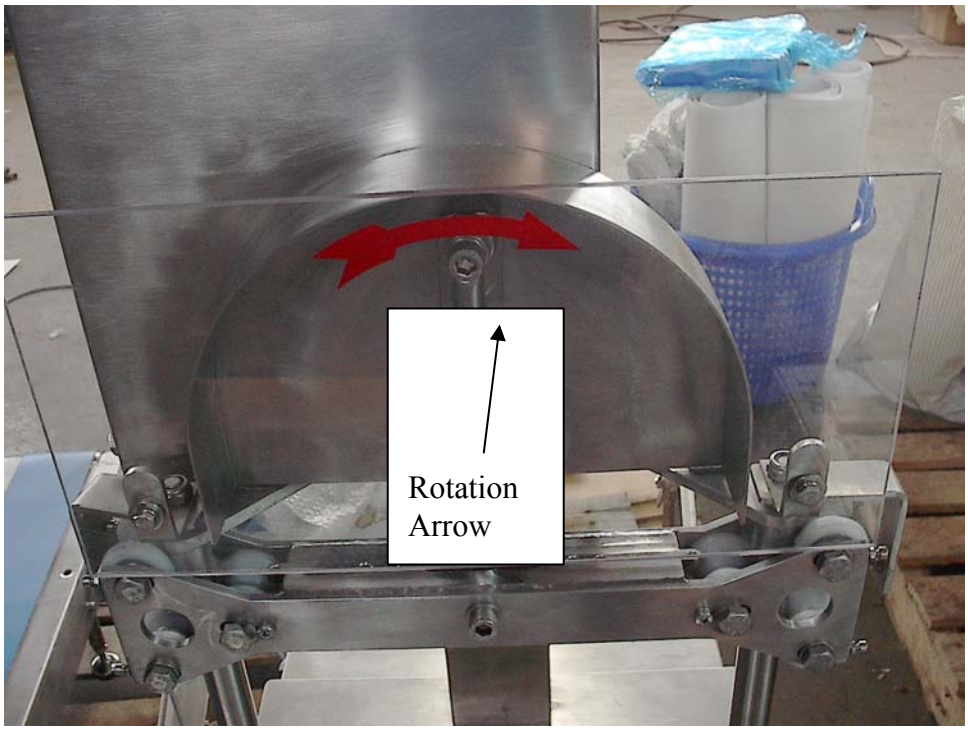


Figure 3
Rotation Direction

DESCRIPTION OF CONTROLS AND ADJUSTMENTS

POWER SWITCH

The machine is equipped with a main power switch/disconnect. It is located on the control box at the rear of the machine. Turn the power switch to the **ON** (1) position to apply power to the machine.

RUN BUTTONS

The machine is equipped with two green push buttons to operate the machine. They are located on each side at the front of the machine. Both buttons must be pushed simultaneously for the machine to cycle.

REVERSING SWITCH

The machine is equipped with a reversing switch on one side of the control box. If placed in the reverse position, the machine may be bumped in the reverse direction to allow the operator to 'back out' if there is any problem.

CONVEYOR SWITCH

The machine is equipped with a two position switch on the side of the control box. The switch controls the operation of the conveyor. In the left-hand position, the conveyor pulses on momentarily after each cutting cycle. In the right-hand position, the conveyor runs continuously.

CONVEYOR CONNECTOR

The machine is equipped with a connector plug near the conveyor switch. The connector from the conveyor plugs into this location.

OPERATING INSTRUCTIONS

OPERATION

Make sure that all fasteners are tight. Manually move the ram through a cycle to insure that all blades are properly aligned.

Turn the main power switch to the 'on' position.

Place the tomatoes on the slicing blades.

Simultaneously push both green buttons. Hold them until the cycle is complete. As the ram completes its cycle, it will stop to allow the machine to be reloaded.

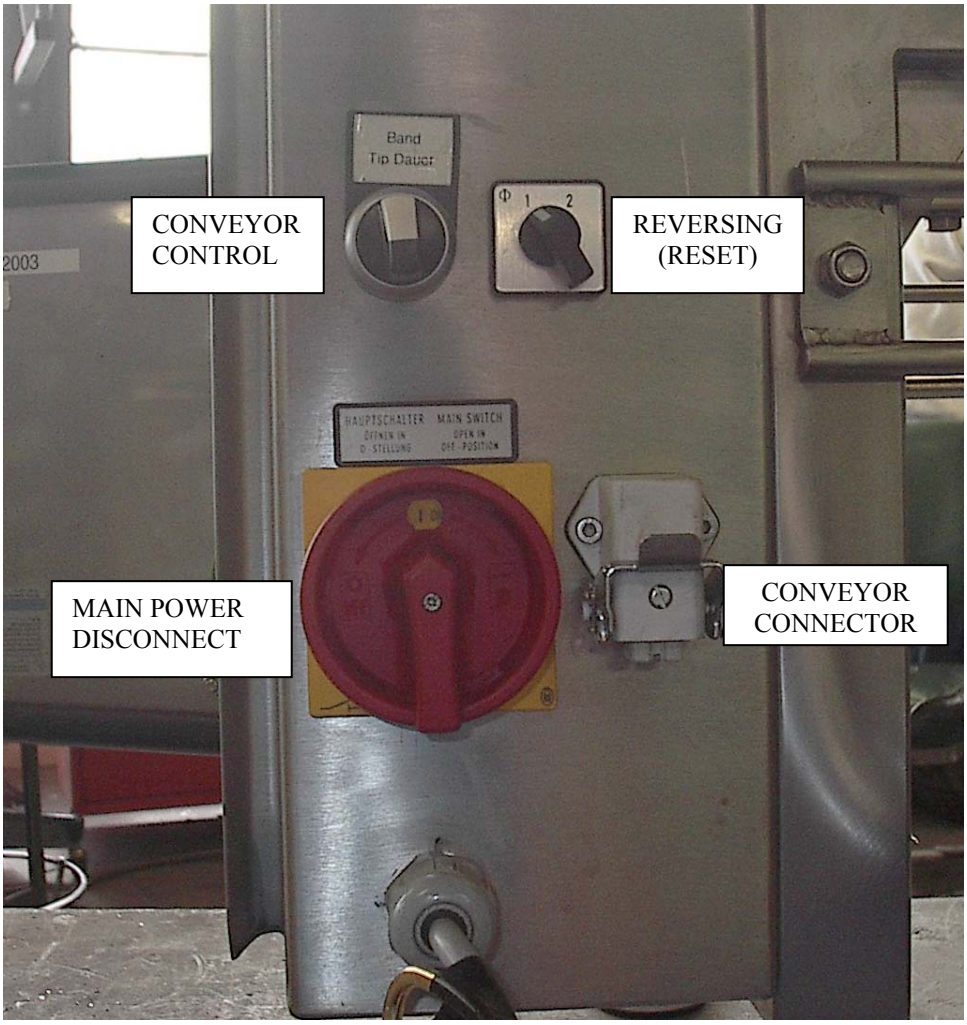


Figure 4
External Controls

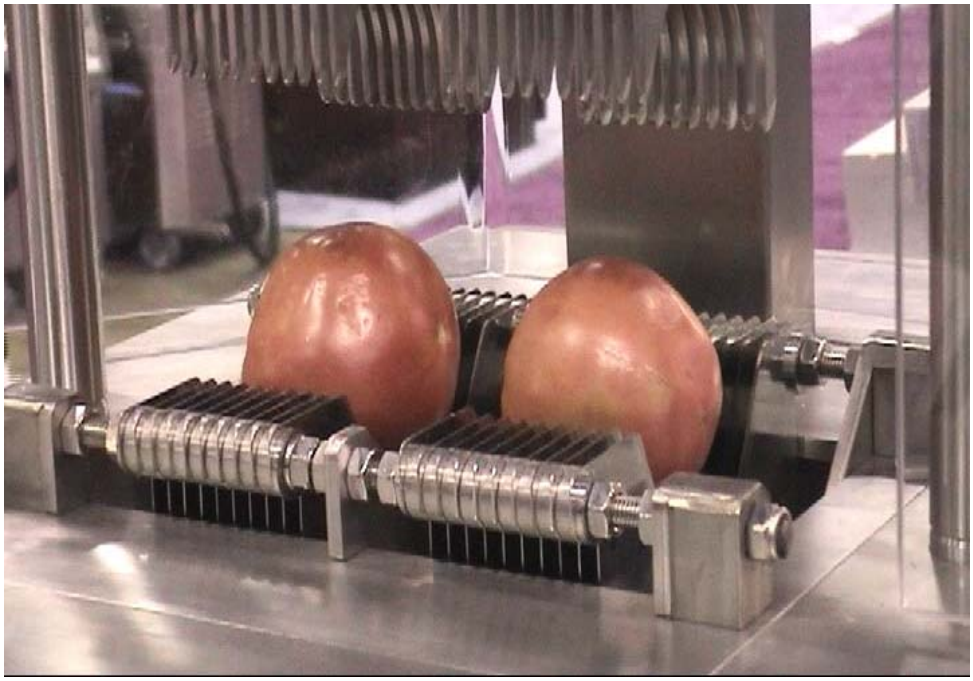


Figure 5
Product Placement

Figure 6
Operating the Push Buttons

MAINTENANCE

CLEANING

Remove power from the slicer before cleaning. The ram may be manually moved to insure proper cleaning.

Figure 7
Blade Notch

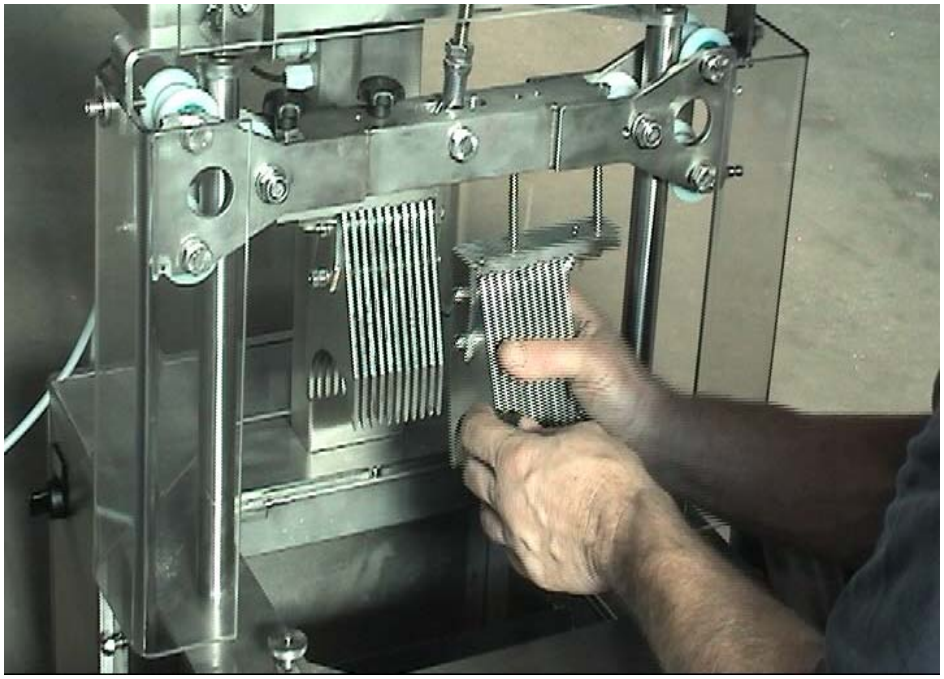


Figure 8
Removal

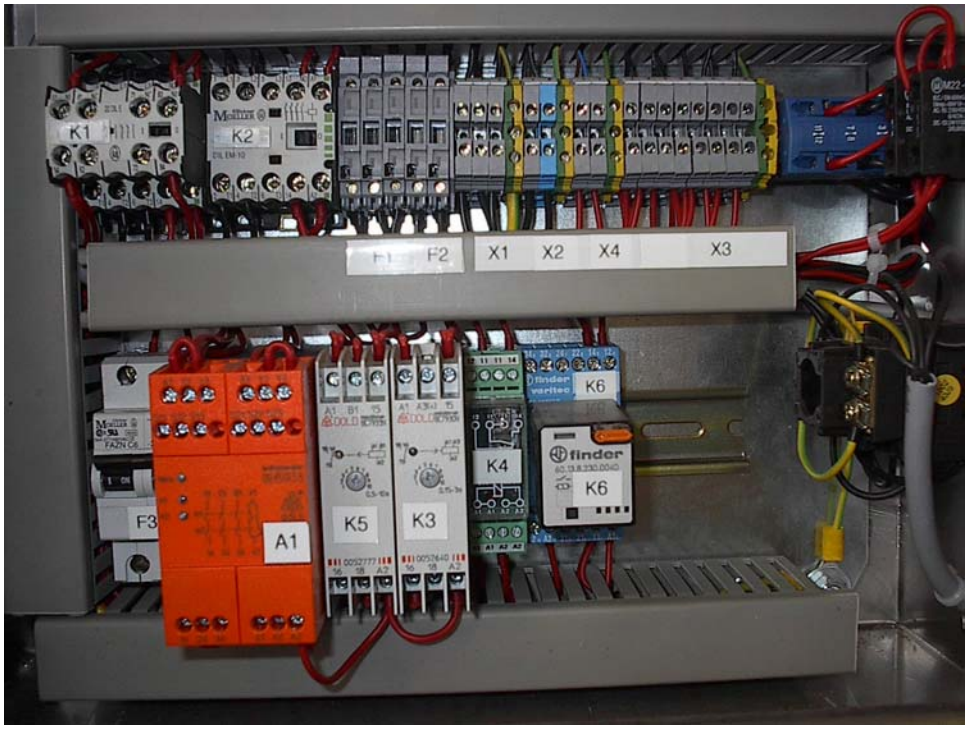
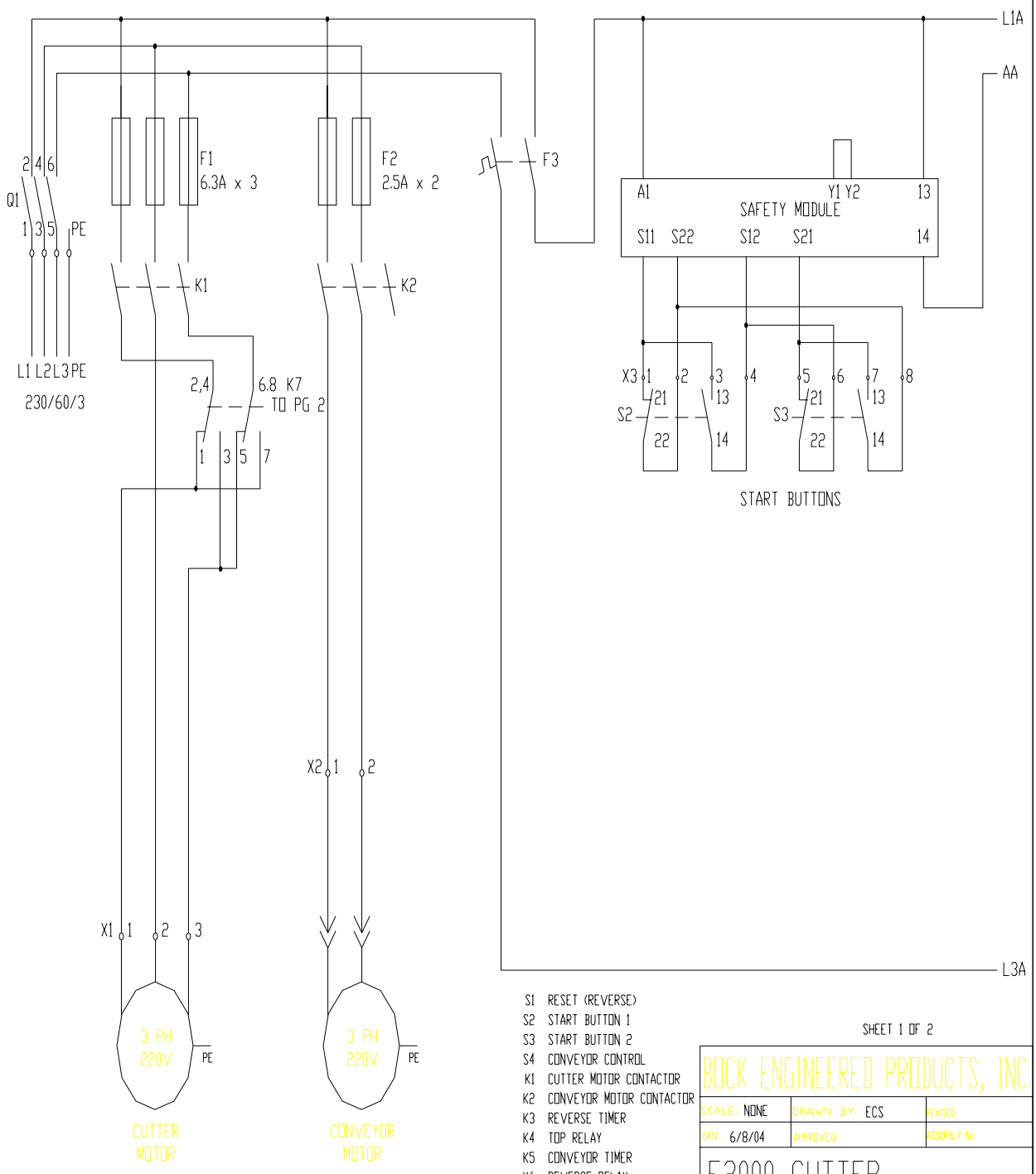
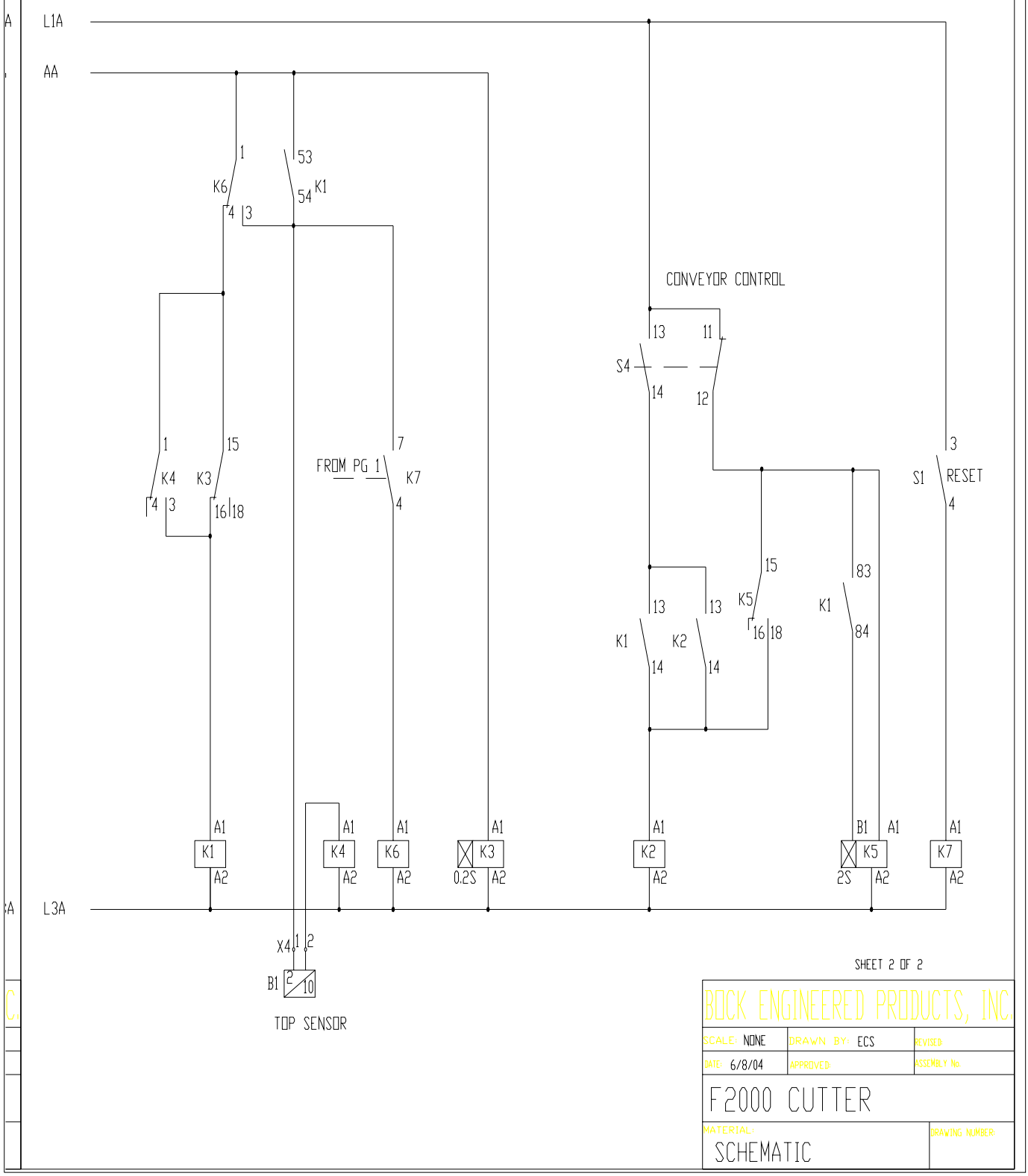


Figure 9
Internal Components


L1A
AA
Q1
2 4 6
1 3 5
PE
F1
6.3A x 3
F2
2.5A x 2
F3
K1
K2
L1 L2 L3 PE
230/60/3
2,4
6,8 K7
TO PG 2
1 3 5 7
A1
Y1 Y2
13
SAFETY MODULE
S11 S22
S12 S21
14
X3 1 2 3 4 5 6 7 8
S2
S3
21
13
22
14
START BUTTONS
X2 1 2
X1 1 2 3
3 PH
220V
PE
CUTTER
MOTOR
CONVEYOR
MOTOR
L3A
S1 RESET (REVERSE)
S2 START BUTTON 1
S3 START BUTTON 2
S4 CONVEYOR CONTROL
K1 CUTTER MOTOR CONTACTOR
K2 CONVEYOR MOTOR CONTACTOR
K3 REVERSE TIMER
K4 TOP RELAY
K5 CONVEYOR TIMER
K6 REVERSE RELAY
K7 REVERSE RELAY
SHEET 1 OF 2
BOCK ENGINEERED PRODUCTS, INC.
SCALE: NONE
DRAWN BY: ECS
REVISED:
DATE: 6/8/04
APPROVED:
ASSEMBLY No.
F2000 CUTTER
MATERIAL:
SCHEMATIC
DRAWING NUMBER:


L1A
AA
L3A
CONVEYOR CONTROL
FROM PG 1
TOP SENSOR
K1
K2
K3
K4
K5
K6
K7
S1
S4
B1
X4
SHEET 2 OF 2
BECK ENGINEERED PRODUCTS, INC.
SCALE: NONE
DRAWN BY: ECS
REVISED:
DATE: 6/8/04
APPROVED:
ASSEMBLY No.
F2000 CUTTER
MATERIAL:
SCHEMATIC
DRAWING NUMBER:

Machine:

F2007 Hinge bearing
F2008 Plastic rollers
F2009 Bearing
F2010 Shaft seals
F2011 Motor

Conveyor:

F2999A Conveyor belt
F2999B Motor
F2999C Gears
F2999D Belt roller
F2999E Drive belt
F2999F Bearing
F2999G Shaft seals

Blades

F2000 Grid Sticks Grid ½"
F2004 4mm Slicing blades and pusher
F2005 5mm Slicing blade & pusher
F2006 6mm Slicing blade set
F2608P Individual pusher finger
F2822 8 segment wedging blade w/22mm core
F2825 8 segment wedging blade w/25mm core
F2830 8 segment wedging blade w/30mm core

Misc.

F2998 Core separator